

Commonwealth of Kentucky
Division for Air Quality
EXECUTIVE SUMMARY

FINAL

Conditional Major, Construction / Operating

Permit: F-08-023

Equitable Gathering, LLC, Wildcat Station

Fisty, KY 41743

Date: October 10, 2008

Sukhendu K. Majumdar, Reviewer

SOURCE ID: 21-119-00043

AGENCY INTEREST: 84803

ACTIVITY: APE20080002

SOURCE DESCRIPTION:

On May 13, 2008 Equitable Gathering, LLC submitted an air permit application to the Division for installation of a new natural gas compressor and emergency generator replacement engine at an existing natural gas compressor station in Knott County near Fisty, Kentucky (Wildcat Station). The Station's current operating permit is under Kentucky West Virginia Gas Company, LLC. Ownership has since transferred to Equitable Gathering, LLC. In the application the permittee requested to change the ownership name to Equitable Gathering, LLC. The station is used to compress natural gas as it is being shipped via pipeline. The station presently consists of two natural gas fired engines, a glycol dehydrator with associated natural gas-fired reboiler, a natural gas-fired emergency engine and eight (8) small storage tanks with less than 10,000 gallons capacity and storing low vapor pressure (< 1.5psi) liquid material.

Equitable Gathering in the application requested to install one new natural gas-fired 2,370 HP compressor and an emergency generator, rated at 450 kW to replace the existing emergency generator. The addition of the compressor engine will increase the throughput capacity for the glycol dehydration unit from 18 million standard cubic feet (mmscf) per day of natural gas to 25 mmscf per day. The compressor station at the Wildcat facility after installation of new engines, will consist of the following emission units:

- Two natural gas-fired Caterpillar G3516TALE compressor engines, each installed in 2007 and rated at a brake horsepower (bhp) of 1,340;
- One natural gas-fired Caterpillar G3608TALE compressor engine proposed to install in 2008 and rated 2,370 brake horsepower (bhp). An emergency generator (Caterpillar 3412 TA) rated at 450 kW or 650 HP will be installed in 2008 to replace existing emergency generator.
- One NATCO glycol dehydration unit, installed in 2007 and would treat 25 million standard cubic feet per day (mmscfd) of compressed natural gas. The emissions from this unit are controlled by a flare;
- One natural gas-fired reboiler with maximum heat capacity of 0.50 mmBtu/hr;

- Tanks #1 and #2, storing pipeline condensate and having a maximum capacity of 8,820 gallons each;
- Tank #3, storing compressed lube oil and having a maximum capacity of 4,410 gallons;
- Tanks #4 and #5, storing antifreeze and having a maximum capacity of 2,184 and 924 gallons, respectively;
- Tank #6, storing triethylene glycol and having a maximum capacity of 1,008 gallons;
- Tanks #7 and #8, storing used oil and having a maximum capacity of 1,974 gallons, each.

PUBLIC AND U.S. EPA REVIEW:

On August 20, 2008, the public notice on availability of the draft permit and supporting material for comments by persons affected by the plant was published in Troublesome Creek Times in Hindman, Knott County, Kentucky. In addition, notification of the issuance of the draft permit was sent to the U.S. EPA on August 13, 2008 via e-mail. The public comment period expired 30 days from the date of publication.

Comments were received from Equitable Gathering, LLC on September 9, 2008. Attachment B lists the comments received, the Division's response to each comment, and a detailed explanation of the changes made to the permit. Minor changes were made to the permit as a result of the comments received; however, in no case were any emissions standards, or any monitoring, recordkeeping or reporting requirements relaxed.